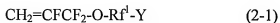


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method of forming a laminated photoresist which comprises:
- (I) a step for forming a photoresist layer (L1) on a substrate and
 - (II) a step for forming an antireflection layer (L2) on the photoresist layer (L1) by applying a coating composition comprising a fluorine-containing polymer (A) having hydrophilic group Y; said fluorine-containing polymer (A) has a structural unit derived from a fluorine-containing ethylenic monomer having the hydrophilic group Y and is characterized in that:
 - (i) the hydrophilic group Y contains ~~an acidic OH group~~ -COOH having a pKa value of not more than 11,
 - (ii) a fluorine content is not less than 50 % by mass,
 - (iii) the number of moles of the hydrophilic group Y in 100 g of the fluorine-containing polymer (A) is not less than 0.14,
 - (iv) a number of average molecular weight is from 31,000 to 750,000, and
 - (v) the fluorine-containing polymer (A) is a fluorine-containing polymer represented by the formula (M-1):
- (M1) - (N1) - (M1)
- wherein the structural unit M1 is a structural unit derived from a monomer represented by the formula (2-1);



wherein Rf¹ is a divalent fluorine-containing alkylene group having 1 to 40 carbon atoms or a divalent fluorine-containing alkylene group having 2 to 100 carbon atoms and ether bond, Y is a hydrophilic group; the structural unit N1 is a structural unit derived from a monomer copolymerizable with the fluorine-containing monomer of the formula (2-1), and the structural units M1 and N1 are contained in amounts of from 30 to 100% by mole and from 0 to 70% by mole, respectively.

2. (currently amended): The method of forming a laminated photoresist of Claim 1, wherein in the fluorine-containing polymer (A), the hydrophilic group Y ~~containing an acidic OH group is further contains~~ -OH having a pKa value of not more than 11 ~~and/or -COOH having a pKa value of not more than 11.~~

3. (previously presented): The method of forming a laminated photoresist of Claim 1, wherein the number of moles of the hydrophilic group Y in 100 g of the fluorine-containing polymer (A) is not less than 0.21.

4. (original): The method of forming a laminated photoresist of Claim 1, wherein the hydrophilic group Y in the fluorine-containing polymer (A) is -COOH and the number of moles of -COOH in 100 g of the polymer is not less than 0.21 and not more than 0.290.

Claims 5-10 (canceled).

11. (previously presented): The method of forming a laminated photoresist of Claim 1, wherein the coating composition further contains (B) at least one solvent selected from the group consisting of water and alcohols.

12. (original): The method of forming a laminated photoresist of Claim 11, wherein the coating composition further contains (C) at least one selected from the group consisting of ammonia and organic amines.

13. (currently amended): A coating composition comprising:

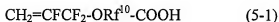
(A1) a fluorine-containing polymer having carboxyl group and

~~(B) at least one solvent selected from the group consisting of water and alcohols;~~

said fluorine-containing polymer (A1) has a number average molecular weight of from 31,000 to 750,000 and is represented by the formula (M-3):

- (M3) - (N3) - (M-3)

wherein the structural unit M3 is a structural unit derived from a fluorine-containing monomer represented by the formula (5-1):



wherein Rf¹⁰ is a divalent fluorine-containing alkylene group having 1 to 40 carbon atoms or a divalent fluorine-containing alkylene group having 2 to 100 carbon atoms and ether bond, the structural unit N3 is a structural unit derived from a monomer copolymerizable with the fluorine-containing monomer of the formula (5-1), ~~and~~

the structural units M3 and N3 are contained in amounts of from 55 to 100 % by mole and from 0 to 45 % by mole, respectively, and
the number of moles of the carboxylic acid in 100 g of the fluorine-containing polymer (A1) is not less than 0.14.

Claim 14 (canceled).

15. (previously presented): The coating composition of Claim 13, wherein in the fluorine-containing polymer (A1), the structural units M3 and N3 are contained in amounts of from 70 to 100 % by mole and from 0 to 30 % by mole, respectively.

16. (previously presented): The coating composition of Claim 13, wherein the solvent (B) is selected from water and solvent mixtures of water and alcohol, and a content of water in the solvent (B) exceeds 65 % by mass based on the total weight of water and alcohol.

17. (previously presented): The coating composition of Claim 13, wherein the coating composition further contains (C) at least one selected from the group consisting of ammonia and organic amines.

18. (original): The coating composition of Claim 17, wherein (C) at least one selected from the group consisting of ammonia and organic amines is at least one selected from the group consisting of ammonia and hydroxyalkyl amines.

Claims 19-20 (canceled).

21. (new): The coating composition of Claim 13, further comprising (B) at least one solvent selected from the group consisting of water and alcohols.